

What is claimed is:

1. A method for content recognition, comprising:
collecting information from one or more business partners;
organizing the collected information into distinct categories;
5 receiving a search request from a user;
transmitting information to the user in accordance with the search
request; and
updating statistics on user usage to reflect the search request by the
user.
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2. The method of claim 1, further comprising creating segments of
usage patterns, where said usage patterns are created based on the statistics on user usage
by a plurality of users.
- 15 3. The method of claim 2, further comprising storing all information
regarding the search request made by the user and the information transmitted to the user.
4. The method of claim 3, further comprising data mining the stored
information to better customize the information being transmitted to the user.
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5. The method of claim 4, further comprising transmitting non-requested information to the user, wherein the non-requested information is similar to the information transmitted to the user in response to the search request.

5 6. A method for content recognition, comprising:
collecting information from one or more business partners;
organizing the collected information into distinct categories;
receiving a request from a user to access information on a selected
topic;
10 making available information on the selected topic to the user; and
updating statistics on user usage to reflect the access information.

7. The method of claim 6, wherein said access information comprises request for access to libraries of information on one or more topics.

15 8. The method of claim 7, further comprising creating segments of usage patterns, where said usage patterns are created based on the access information provided by a plurality of users.

20 9. The method of claim 8, further comprising storing the access information.

10. The method of claim 9, further comprising data mining the stored information to better customize the information being transmitted to the user.

5 11. The method of claim 10, further comprising transmitting non-requested information to the user, wherein the non-requested information is similar to the information transmitted to the user in response to the access information selected by the user.

10 12. A method for content recognition, comprising:
launching content recognition software on a personal computer;
receiving a user profile from a user;
transmitting the user profile and the list of interest to a server for
data collection;
15 transmitting information to the user in accordance with the user profile and interests;
compiling statistics based on the user profile and the list of
interests; and
creating a plurality of libraries on different topics, said libraries
20 created based on the compiled statistics.

13. The method of claim 12, wherein the server develops a list of
interests based on the user profile.

14. The method of claim 12, further comprising monitoring usage
5 habits of the user.

15. The method of claim 14, further comprising collecting data on the
usage habits of the users, said data collected by the content recognition software after said
monitoring.

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16. The method of claim 15, wherein the content recognition software
comprises a data collection mechanism to collect said data on usage habits of the user.

17. The method of claim 16, wherein the server collects comprehensive
15 data on the usage habits of a plurality of users.

18. The method of claim 17, further comprising data mining the
comprehensive data in the server.

19. The method of claim 18, further comprising transmitting non-requested information to the user by the server, wherein the non-requested information is similar to the information transmitted to the user in response to the search request.

- 5 20. A system for content recognition, comprising:
- a. a memory unit; and
 - b. a processing unit disposed in communication with said memory
- unit, said processing unit configured to:
- collect information from one or more business partners,
 - 10 organize the collected information into distinct categories,
 - receive a search request from a user,
 - transmit information to the user in accordance with the search
 - request, and
 - update statistics on user usage to reflect the search request by the
 - 15 user.

21. The system of claim 20, wherein the processing unit is further configured to create segments of usage patterns, where said usage patterns are created based on the statistics on user usage by a plurality of users.

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22. The system of claim 21, wherein the processing unit is further configured to store information regarding the search request made by the user and the information transmitted to the user.

5 23. The system of claim 22, wherein the processing unit is further configured to data mine the stored information to better customize the information being transmitted to the user.

10 24. The system of claim 23, wherein the processing unit is further configured to transmit non-requested information to the user, wherein the non-requested information is similar to the information transmitted to the user in response to the search request.

15 25. A system for content recognition, comprising:
a. a memory unit; and
b. a processing unit disposed in communication with said memory unit, said processing unit configured to:

collect information from one or more business partners,
organize the collected information into distinct categories,
20 receive a request from a user to access information on a selected
topic,

26. The system of claim 25, wherein said access information comprises
5 request for access to libraries of information on one or more topics.

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29. The system of claim 28, wherein the processing unit is further
15 configured to data mine the stored information to better customize the information being
transmitted to the user.

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31. A system for content recognition, comprising:

- a. a memory unit; and
- b. a processing unit disposed in communication with said memory

5 unit, said processing unit configured to:

launch content recognition software on a personal computer,

receive a user profile and a list of interests from a user,

transmit the user profile and the list of interest to a server for data

collection,

10 transmit information to the user in accordance with the user profile

and interests,

compile statistics based on the user profile and the list of interests,

and

create a plurality of libraries on different topics, said libraries

15 created based on the compiled statistics.

32. The system of claim 31, wherein the processing unit is further

configured to monitor usage habits of the user.

33. The system of claim 32, wherein the processing unit is further configured to collect data on the usage habits of the users, said data collected by the content recognition software after said monitoring.

5 34. A system for content recognition, comprising:
means for collecting information from one or more business
partners;
means for organizing the collected information into distinct
categories;
10 means for receiving a search request from a user;
means for transmitting information to the user in accordance with
the search request; and
means for updating statistics on user usage to reflect the search
request by the user.

15 35. The method of claim 34, further comprising means for creating
segments of usage patterns, where said usage patterns are created based on the statistics on
user usage by a plurality of users.

20 36. A system for content recognition, comprising:

means for collecting information from one or more business
partners;

means for organizing the collected information into distinct
categories;

5 means for receiving a request from a user to access information on
a selected topic;

means for making available information on the selected topic to the
user; and

10 means for updating statistics on user usage to reflect the access
information.

37. The system of claim 36, further comprising means for creating
segments of usage patterns, where said usage patterns are created based on the access
information provided by a plurality of users.

15 38. The system of claim 37, further comprising means for storing the
access information.

39. The system of claim 38, further comprising means for data mining
20 the stored information to better customize the information being transmitted to the user.

40. The system of claim 39, further comprising means for transmitting non-requested information to the user, wherein the non-requested information is similar to the information transmitted to the user in response to the access information selected by the user.

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41. A system for content recognition, comprising:

- means for launching content recognition software on a personal computer;
- means for receiving a user profile and a list of interests from a user;
- 10 means for transmitting the user profile and the list of interest to a server for data collection;
- means for transmitting information to the user in accordance with the user profile and interests;
- means for compiling statistics based on the user profile and the list
- 15 of interests; and
- means for creating a plurality of libraries on different topics, said libraries created based on the compiled statistics.

42. The system of claim 41, further comprising means for monitoring
20 usage habits of the user.

43. The system of claim 42, further comprising means for collecting data on the usage habits of the users, said data collected by the content recognition software after said monitoring.

5 44. A computer device comprising a computer readable medium having computer readable code means embodied therein for recognizing content, said computer readable code means further comprising:

means for collecting information from one or more business partners;

10 means for organizing the collected information into distinct categories;

means for receiving a search request from a user;

means for transmitting information to the user in accordance with the search request; and

15 means for updating statistics on user usage to reflect the search request by the user.

45. A computer device comprising a computer readable medium having computer readable code means embodied therein for recognizing content, said computer readable code means further comprising:

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means for organizing the collected information into distinct categories;

5 means for receiving a request from a user to access information on
a selected topic;

means for making available information on the selected topic to the user; and

means for updating statistics on user usage to reflect the access
10 information.

46. A computer device comprising a computer readable medium having computer readable code means embodied therein for recognizing content, said computer readable code means further comprising:

15 means for launching content recognition software on a personal
computer;

means for receiving a user profile and a list of interests from a user;

means for transmitting the user profile and the list of interest to a server for data collection;

20 means for transmitting information to the user in accordance with
the user profile and interests;

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launching content recognition software on a computer, wherein the content recognition software includes a data recognition algorithm that runs when the content recognition software is launched;

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48. The method of claim 47, wherein the service provider identifies the user based on said data recognition algorithm.

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$\{f_{\alpha}^{(1)}\}_{\alpha \in \mathcal{A}}$ and $\{f_{\alpha}^{(2)}\}_{\alpha \in \mathcal{A}}$ are two families of functions on \mathcal{A} such that $f_{\alpha}^{(1)}(\alpha) = 1$ and $f_{\alpha}^{(2)}(\alpha) = 0$ for all $\alpha \in \mathcal{A}$. Then the functions $f_{\alpha}^{(1)}$ and $f_{\alpha}^{(2)}$ are linearly independent.